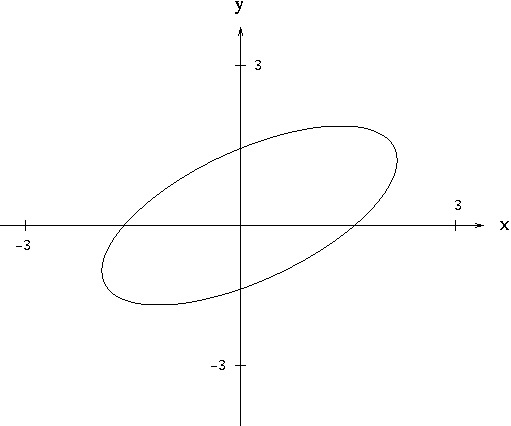
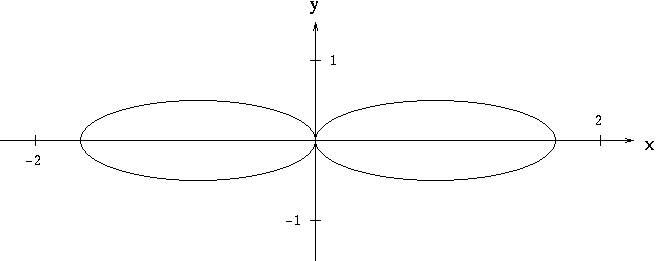
**IMPLICIT DIFFERENTIATION PROBLEMS**

1. Find
2. Find
3. Find
4. Find
5. Find
6. Find
7. Find an equation of the line tangent to the graph of at the point (-1, 1)
8. The graph of is a “tilted” ellipse. Among all point (*x, y*) on this graph, find the largest and smallest values of *y.*  Also find the largest and smallest values of *x*.
9. Find all point (*x*, *y*) on the graph where .



Problem 8 Problem 9

**LOGARITHMIC DIFFERENTIATION**

**Remember:**

1. Differentiate:
2. Differentiate:
3. Differentiate:
4. Differentiate:
5. Differentiate: .
6. Differentiate:
7. Differentiate: